

Application Number 09/963,806
Responsive to Office Action mailed March 23, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended): A method comprising:
receiving output in an XML-tagged format from a router system module ~~in a format describing a type of the output~~;
querying a server selected as a function of the type of the output; and
providing a response from the server to a user,
wherein querying a server selected as a function of the type of the output comprises
invoking a command line interface (CLI) module to issue a query to the server.

Claim 2 (Original): The method of claim 1, wherein the output is a numeric address.

Claim 3 (Previously Presented): The method of claim 2, further comprising:
querying a name server selected as a function of the type of the output;
receiving from the name server a symbolic name associated with the numeric address;
and
providing the symbolic name as the response to the user.

Claim 4 (Previously Presented): The method of claim 2, further comprising:
querying an owner database selected as a function of the type of the output;
receiving from the owner database an identification of an owner associated with the
numeric address; and
providing the identification of the owner as the response to the user.

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Claim 5 (Previously Presented): The method of claim 2, further comprising:
 querying a router policy database selected as a function of the type of the output;
 receiving from the router policy database an identification of one or more router policies
associated with the numeric address; and
 providing the identification of the one or more router policies as the response to the user.

Claim 6 (Cancelled).

Claim 7 (Previously Presented): The method of claim 1, further comprising rendering the
output in a text format different from the format describing a type of the output before querying
the server.

Claim 8 (Original): The method of claim 7, wherein the text format is selected from the group
consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 9 (Original): The method of claim 1, wherein the output comprises a listing of network
peers identified by numeric addresses.

Claim 10 (Cancelled)

Claim 11 (Currently Amended): A method for processing an address, the method
comprising:
 receiving a numeric address in an XML-tagged format from a router system module a
~~self-describing format~~;
 querying a name server to resolve the numeric address to a symbolic name;
 providing the symbolic name from the server to a user; and
 rendering the numeric address in a text format different from the XML-tagged self
~~describing~~ format before querying the name server.

Claim 12 (Cancelled).

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Claim 13 (Cancelled).

Claim 14 (Previously Presented): The method of claim 11, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 15 (Original): The method of claim 11, wherein the numeric address identifies a network peer.

Claim 16 (Currently Amended): A method for processing an address, the method comprising:

- receiving a command in a user interface module;
- invoking a system module to process the command;
- receiving an XML-tagged IP address from the system module;
- querying a domain name server to resolve the IP address to a symbolic name, wherein the IP address identifies a network peer; and
- providing the symbolic name from the server to a user.

Claim 17 (Previously Presented): The method of claim 16, further comprising rendering the IP address in a text format different from an XML-tagged format of the IP address before querying the domain name server.

Claim 18 (Original): The method of claim 17, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 19 (Cancelled).

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Claim 20 (Currently Amended): A processor-readable data storage medium comprising instructions for causing a programmable processor to:

receive output from a router system module in an XML-tagged a format ~~describing a type of the output;~~

query a server selected as a function of the type of the output; and

provide a response from the server to a user,

wherein querying a server selected as a function of the type of the output comprises invoking a command line interface (CLI) module to issue a query to the server.

Claim 21 (Original): The processor-readable medium of claim 20, wherein the output is a numeric address.

Claim 22 (Previously Presented): The processor-readable medium of claim 21, further comprising instructions for causing the programmable processor to:

query a name server selected as a function of the type of the output;

receive from the name server a symbolic name associated with the numeric address; and

provide the symbolic name as the response to the user.

Claim 23 (Previously Presented): The processor-readable medium of claim 20, further comprising instructions for causing the programmable processor to:

query an owner database selected as a function of the type of the output;

receive from the owner database an identification of an owner associated with the numeric address; and

provide the identification of the owner as the response to the user.

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Claim 24 (Previously Presented): The processor-readable medium of claim 20, further comprising instructions for causing the programmable processor to:

- query a router policy database selected as a function of the type of the output;
- receive from the router policy database an identification of one or more router policies associated with the numeric address; and
- provide the identification of the one or more router policies as the response to the user.

Claim 25 (Cancelled).

Claim 26 (Previously Presented): The processor-readable medium of claim 20, further comprising instructions for causing the programmable processor to render the output in a text format different from the format describing a type of the output before querying the server.

Claim 27 (Original): The processor-readable medium of claim 26, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 28 (Original): The processor-readable medium of claim 20, wherein the output comprises a listing of network peers identified by numeric addresses.

Claim 29 (Currently Amended): A processor-readable data storage medium comprising instructions for causing a programmable processor to:

- receive a numeric address in an XML-tagged format from a router system module ~~a self-describing format~~;
- query a name server to resolve the numeric address to a symbolic name;
- render the numeric address in a text format different from the XML-tagged ~~self-describing~~ format before querying the name server; and
- provide the symbolic name from the server to a user.

Claim 30 (Cancelled).

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Claim 31 (Cancelled)

Claim 32 (Previously Presented): The processor-readable medium of claim 29, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 33 (Original): The processor-readable medium of claim 29, wherein the numeric address identifies a network peer.

Claim 34 (Currently Amended): A processor-readable data storage medium comprising instructions for causing a programmable processor to:

- receive a command in a user interface module;
- invoke a system module to process the command;
- receive an XML-tagged IP address from the system module;
- query a domain name server to resolve the IP address to a symbolic name, wherein the IP address identifies a network peer; and
- provide the symbolic name from the server to a user.

Claim 35 (Previously Presented): The processor-readable medium of claim 34, further comprising instructions for causing the programmable processor to render the IP address in a text format different from an XML-tagged format of the IP address before querying the domain name server.

Claim 36 (Original): The processor-readable medium of claim 35, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 37 (Cancelled).

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Claim 38 (Currently Amended): A routing device comprising:
a client interface to receive an operational request from a network router client; and
a router system module to process the operation request and to provide output to the
client interface in an XML-tagged ~~a format that describes a type of the output~~, wherein the output
is a numeric address,

wherein the client interface is configured to query a server selected as a function of the
type of the output and to provide a response from the server to the network router client.

Claim 39 (Cancelled).

Claim 40 (Previously Presented): The routing device of claim 38, wherein the client interface
is further configured to:

query a name server selected as a function of the type of the output;
receive from the name server a symbolic name associated with the numeric address; and
provide the symbolic name as the response to the network router client.

Claim 41 (Previously Presented): The routing device of claim 38, wherein the client interface
is further configured to:

query an owner database selected as a function of the type of the output;
receive from the owner database an identification of an owner associated with the
numeric address; and
provide the identification of the owner as the response to the user.

Claim 42 (Previously Presented): The routing device of claim 38, wherein the client interface
is further configured to:

query a router policy database selected as a function of the type of the output;
receive from the router policy database an identification of one or more router policies
associated with the numeric address; and
provide the identification of the one or more router policies as the response to the user.

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Claim 43 (Currently Amended): A routing device comprising:
a client interface to receive an operational request from a network router client; and
a router system module to process the operational request and to provide output to the client interface in a format that describes a type of the output,
wherein the client interface is configured to query a server selected as a function of the type of the output and to provide a response from the server to the network router client,
wherein the output is provided from the server to the client interface in an XML-tagged format.

Claim 44 (Currently Amended): A routing device comprising:
a client interface to receive an operational request from a network router client; and
a router system module to process the operational request and to provide output to the client interface in an XML-tagged ~~a format that describes a type of the output,~~
wherein the client interface is configured to query a server selected as a function of the type of the output and to provide a response from the server to the network router client, and
wherein the client interface is further configured to render the output in a text format different from the XML-tagged ~~format that describes a type of the output~~ before querying the server.

Claim 45 (Original): The routing device of claim 44, wherein the text format is selected from the group consisting of an ASCII format, a UTF-8 format, and a Unicode format.

Claim 46 (Currently Amended): A routing device comprising:
a client interface to receive an operation request from a network router client; and
a router system module to process the operational request and to provide output to the client interface in an XML-tagged ~~a format that describes a type of the output,~~
wherein the client interface is configured to query a server selected as a function of the type of the output and to provide a response from the server to the network router client, and
wherein the output comprises a listing of network peers identified by numeric addresses.

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Claim 47 (Currently Amended): A routing device comprising:
a client interface to receive an operation request from a network router client; and
a router system module to process the operational request and to provide output to the
client interface in an XML-tagged a format ~~that describes a type of the output~~,
wherein the client interface is configured to query a server selected as a function of the
type of the output and to provide a response from the server to the network router client, and
wherein the system module is a BGP protocol module, an OSPF module, or a firewall
filter module.

Claim 48 (Cancelled).

Claim 49 (Cancelled).

Claim 50 (Currently Amended): A routing device comprising:
a client interface to receive an operational request from a network router client; and
a router system module to process the operational request and to provide output to the
client interface in an XML-tagged a format ~~that describes a type of the output~~,
wherein the client interface is configured to query a server selected as a function of the
type of the output and to provide a response from the server to the network router client, the
routing device further comprising a management server module communicatively coupled to the
client interface.

Claim 51 (Currently Amended): A routing device comprising:
a client interface to receive an operational request from a network router client; and
a router system module to process the operational request and to provide output to the
client interface in an XML-tagged a format ~~that describes a type of the output~~,
wherein the client interface is configured to query a server selected as a function of the
type of the output and to provide a response from the server to the network router client, the
routing device further comprising at least one of a chassis module, a device configuration
module, and a routing protocol module.

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Claim 52 (Currently Amended): A routing device comprising:
a client interface to receive an operational request from a network router client; and
a system module to process the operational request and to provide a numeric address to the client interface in an XML-tagged a self-describing format,
wherein the client interface is configured to query a name server to resolve the numeric address to a symbolic name and to provide the symbolic name to the network router client.

Claim 53 (Original): The routing device of claim 52, wherein the system module is a BGP protocol module.

Claim 54 (Original): The routing device of claim 52, wherein the system module is an OSPF protocol module.

Claim 55 (Original): The routing device of claim 52, wherein the system module is a firewall filter module.

Claim 56 (Original): The routing device of claim 52, further comprising a management server module communicatively coupled to the client interface.

Claim 57 (Original): The routing device of claim 52, further comprising at least one of a chassis module, a device configuration module, and a routing protocol module.

Claim 58 (Original): A routing device comprising:
a client interface to receive an operational request from a network router client; and
a system module to process the operational request and to provide an XML-tagged IP address to the client interface,
wherein the client interface is configured to query a domain name server to resolve the IP address to a symbolic name and to provide the symbolic name to the network router client.

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Claim 59 (Original): The routing device of claim 58, wherein the system module is a BGP protocol module.

Claim 60 (Original): The routing device of claim 58, wherein the system module is an OSPF protocol module.

Claim 61 (Original): The routing device of claim 58, wherein the system module is a firewall filter module.

Claim 62 (Original): The routing device of claim 58, further comprising a management server module communicatively coupled to the client interface.

Claim 63 (Original): The routing device of claim 58, further comprising at least one of a chassis module, a device configuration module, and a routing protocol module.

Claim 64 (Currently Amended): A system comprising:
a client interface to receive an operational request from a network router client;
a router system module to process the operational request and to provide output to the client interface in an XML-tagged ~~a format that describes a type of the output~~; and
a server to provide a response to the client interface;
wherein the client interface is configured to query the server and to provide the response to the network router client.

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Claim 65 (Currently Amended): A system comprising:
a client interface to receive an operational request from a network router client;
a system module to process the operational request and to provide a numeric address to the client interface in an XML-tagged ~~a self-describing~~ format; and
a name server to resolve the numeric address to a symbolic name and to provide the symbolic name to the client interface,
wherein the client interface is configured to provide the response to the network router client.

Claim 66 (Original): A system comprising:
a client interface to receive an operational request from a network router client;
a system module to process the operational request and to provide an XML-tagged IP address to the client interface; and
a domain name server to resolve the IP address to a symbolic name and to provide the symbolic name to the client interface,
wherein the client interface is configured to provide the response to the network router client.